

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L2    | 794  | @ad<="20030416" and ("RIE" or "reactive ion etching") with oxidat\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 12:51 |
| L4    | 153  | @ad<="20030416" and metal same ("RIE" or "reactive ion etching") with oxidat\$4                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 12:51 |
| L5    | 101  | @ad<="20030416" and metal with ("RIE" or "reactive ion etching") with oxidat\$4                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 12:53 |
| L6    | 1    | @ad<="20030416" and Anistropic with ("RIE" or "reactive ion etching") with oxidat\$4                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 12:58 |
| L9    | 453  | @ad<="20030416" and (438/52). ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 13:16 |
| L10   | 324  | (metal and anisotropic and reactive and ion and etching).clm.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 13:17 |
| L11   | 1    | (metal and anisotropic and reactive and ion and etching and alternately and oxidation and etching).clm.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 13:18 |
| L12   | 46   | (metal and anisotropic and reactive and ion and etching and oxidation and etching).clm.                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 13:18 |
| L13   | 826  | @ad<="20030416" and (257/e21. 218).ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2006/08/29 13:25 |
| S1    | 14   | ((("5198390") or ("5316979") or ("5399415") or ("5426070") or ("5628917") or ("5846849") or ("6180536"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/18 13:58 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S2  | 2    | "20040207074"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/18 13:42 |
| S3  | 1    | "5876675".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:50 |
| S4  | 1    | "5847454".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:50 |
| S5  | 1    | "5690841".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:51 |
| S6  | 1    | "5681484".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:51 |
| S7  | 1    | "5426070".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:55 |
| S8  | 1    | "5393375".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:55 |
| S9  | 1    | "5198390".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:56 |
| S10 | 1    | "5072288".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:56 |
| S11 | 1    | "4980317".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/18 13:57 |
| S12 | 4246 | @ad<="20030416" and (438/52).<br>ccls. or (257/E21.218).ccls. or<br>(438/666).ccls. or (438/702).ccls. or<br>(438/749-750).ccls. or (438/745).<br>ccls. or (438/739).ccls. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:05 |
| S13 | 0    | @ad<="20030416" and 'MEMS'<br>same 'sustrate' with 'silicon' with<br>'metal'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:34 |
| S14 | 169  | @ad<="20030416" and 'MEMS'<br>same 'substrate' with 'silicon' with<br>'metal'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/29 12:46 |
| S15 | 58   | @ad<="20030416" and 'MEMS'<br>with 'substrate' with 'silicon' with<br>'metal'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/18 14:16 |
| S16 | 27   | @ad<="20030416" and 'actuator'<br>with 'substrate' with 'silicon' with<br>'metal'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/18 14:06 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S18 | 25  | @ad<="20030416" and 'MEMS' and 'metal wafer'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/18 14:17 |
| S19 | 941 | @ad<="20030416" and 'metal wafer'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:43 |
| S20 | 471 | @ad<="20030416" and 'metal' with 'wafer' and 'etch' same ('trench' or 'via') same 'anisotropic' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 08:02 |
| S21 | 17  | @ad<="20030416" and 'metal wafer' and 'etch' same ('trench' or 'via') same 'anisotropic'        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:16 |
| S22 | 70  | @ad<="20030416" and 'etch' same 'metal wafer'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:37 |
| S23 | 574 | @ad<="20030416" and 'etch' same 'metal substrate'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 06:30 |
| S24 | 106 | @ad<="20030416" and 'metal substrate' and 'etch' same ('trench' or 'via') same 'anisotropic'    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:38 |
| S25 | 3   | @ad<="20030416" and 'metal substrate' same 'etch' same ('trench' or 'via') same 'anisotropic'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:38 |
| S26 | 435 | @ad<="20030416" and 'metal substrate' with 'silicon substrate'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:45 |
| S27 | 13  | @ad<="20030416" and 'metal substrate' with 'silicon substrate' same 'etching'                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:45 |
| S28 | 10  | @ad<="20030416" and 'metal substrate' with 'silicon substrate' same 'via'                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:45 |

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|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S29 | 0  | @ad<="20030416" and 'metal substrate' with 'silicon substrate' same 'trench'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 04:45 |
| S30 | 1  | "6535474".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 04:46 |
| S31 | 1  | "5422505".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:24 |
| S32 | 1  | "5289027".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:24 |
| S33 | 1  | "5198390".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:25 |
| S34 | 1  | "5156988".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:25 |
| S35 | 1  | "5072288".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:27 |
| S36 | 1  | "4845048".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:43 |
| S37 | 1  | "4814287".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:45 |
| S38 | 1  | "4814287".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:46 |
| S39 | 1  | "4776924".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 05:46 |
| S41 | 10 | @ad<="20030416" and ('titanium carbide' or 'titanium boride' or 'titanium nitride') with 'substrate' same 'MEMS'           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 05:59 |
| S42 | 24 | @ad<="20030416" and ('titanium carbide' or 'titanium boride' or 'titanium nitride') with 'substrate' same 'Microstructure' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:17 |
| S43 | 1  | "20020185469".PN.  | US-PGPUB  | OR | ON | 2005/11/19 06:02 |
| S44 | 1  | "20010054315".PN.  | US-PGPUB  | OR | ON | 2005/11/19 06:06 |
| S45 | 1  | "6208013".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 06:06 |
| S46 | 1  | "20010054315".PN.  | US-PGPUB  | OR | ON | 2005/11/19 06:08 |
| S47 | 1  | "6208013".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 06:08 |
| S48 | 1  | "6051866".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 06:08 |
| S49 | 1  | "6051866".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 06:08 |
| S50 | 1  | "6012336".PN.  | USPAT;<br>USOCR   | OR | ON | 2005/11/19 06:08 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S51 | 1   | "6208013".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:10 |
| S52 | 1   | "5072288".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:10 |
| S53 | 1   | "5149673".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:10 |
| S54 | 1   | "6635509".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:15 |
| S55 | 1   | "6635509".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:19 |
| S56 | 1   | "6335224".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:19 |
| S57 | 1   | "6297072".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:19 |
| S58 | 1   | "6297072".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:21 |
| S59 | 1   | "6265246".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:21 |
| S60 | 1   | "6232150".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:21 |
| S61 | 133 | @ad<="20030416" and<br>'microstructure' same 'metal<br>substrate'                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/19 06:44 |
| S62 | 1   | "20020115016".PN.  | US-PGPUB  | OR | ON  | 2005/11/19 06:34 |
| S63 | 1   | "20020093119".PN.  | US-PGPUB  | OR | ON  | 2005/11/19 06:35 |
| S64 | 1   | "6699643".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:37 |
| S65 | 1   | "6644537".PN.  | USPAT;<br>USOCR   | OR | ON  | 2005/11/19 06:38 |
| S66 | 2   | ("5,190,637").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/19 06:44 |
| S67 | 17  | @ad<="20030416" and 'metal<br>wafer' and 'etch' same ('trench' or<br>'via') same 'anisotropic' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/19 07:16 |
| S68 | 0   | @ad<="20030416" and 'titanium<br>carbide' with 'substrate' same<br>'MEMS'                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/19 07:18 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S69 | 1337 | @ad<="20030416" and 'titanium carbide' with 'substrate'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:19 |
| S70 | 0    | @ad<="20030416" and 'titanium carbide' with 'substrate' same ('trench' or 'via') same 'anisotropic' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:19 |
| S71 | 46   | @ad<="20030416" and 'titanium carbide' with 'substrate' same 'via'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:25 |
| S72 | 1    | @ad<="20030416" and 'titanium carbide' with 'substrate' same 'trench'                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:26 |
| S73 | 2    | @ad<="20030416" and 'titanium boride' with 'substrate' and 'MEMS'                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:25 |
| S74 | 8    | @ad<="20030416" and 'titanium carbide' with 'substrate' and 'MEMS'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:57 |
| S75 | 36   | @ad<="20030416" and 'titanium nitride' with 'substrate' and 'MEMS'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:44 |
| S76 | 1    | "5072288".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/19 07:41 |
| S77 | 1    | "5285097".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/19 07:41 |
| S78 | 1    | "5316979".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/19 07:42 |
| S79 | 1    | "5393375".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/19 07:43 |
| S80 | 8    | @ad<="20030416" and 'titanium nitride' with 'substrate' and 'Nanostructures'                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:53 |
| S81 | 1    | "20030174384".PN.   | US-PGPUB  | OR | ON | 2005/11/19 07:46 |
| S82 | 1    | "6582767".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/19 07:46 |
| S83 | 1    | "6521285".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/19 07:46 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S84 | 5   | @ad<="20030416" and 'titanium carbide' with 'substrate' and 'Nanostructures'                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:53 |
| S85 | 1   | @ad<="20030416" and 'titanium boride' with 'substrate' and 'Nanostructures'                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:54 |
| S86 | 655 | @ad<="20030416" and 'metal' same 'MEMS device'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:57 |
| S87 | 271 | @ad<="20030416" and 'metal' with 'MEMS device'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 07:57 |
| S88 | 1   | @ad<="20030416" and 'metal plate' with 'MEMS device'  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 08:02 |
| S89 | 186 | @ad<="20030416" and 'metal' with 'plate' and 'etch' same ('trench' or 'via') same 'anisotropic'                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 08:02 |
| S90 | 20  | @ad<="20030416" and 'MEMS' and 'metal' with 'plate' and 'etch' same ('trench' or 'via') same 'anisotropic'        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/19 08:02 |
| S92 | 404 | @ad<="20030416" and ('titanium carbide' or 'titanium boride' or 'titanium nitride') with 'silicon' with 'wafer'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:20 |
| S94 | 24  | @ad<="20030416" and 'titanium carbide' with ('wafer' or 'substrate') same 'silicon wafer'                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:27 |
| S95 | 330 | @ad<="20030416" and 'titanium carbide' with ('wafer' or 'substrate') same 'silicon' with ('wafer' or 'substrate') | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:28 |
| S96 | 11  | @ad<="20030416" and 'titanium nitride' adj1 ('wafer' or 'substrate') same 'silicon' adj1 ('wafer' or 'substrate') | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:28 |

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|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S97      | 53  | @ad<="20030416" and 'titanium carbide' with ('wafer' or 'substrate') same 'silicon' adj2 ('wafer' or 'substrate') | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 10:39 |
| S98      | 8   | @ad<="20030416" and 'titanium carbide' adj2 ('wafer' or 'substrate') same 'silicon' adj2 ('wafer' or 'substrate') | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:48 |
| S99      | 1   | "4923716".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/21 08:32 |
| S10<br>0 | 1   | "4525415".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/21 08:34 |
| S10<br>1 | 1   | "4923716".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/21 08:34 |
| S10<br>2 | 1   | "4810526".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/21 08:34 |
| S10<br>3 | 1   | "4459338".PN.   | USPAT;<br>USOCR   | OR | ON | 2005/11/21 08:34 |
| S10<br>4 | 59  | @ad<="20030416" and 'titanium nitride' adj2 ('wafer' or 'substrate') same 'silicon' adj2 ('wafer' or 'substrate') | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:36 |
| S10<br>5 | 1   | @ad<="20030416" and 'titanium boride' adj2 ('wafer' or 'substrate') same 'silicon' adj2 ('wafer' or 'substrate')  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:35 |
| S10<br>6 | 11  | @ad<="20030416" and 'titanium nitride' adj1 ('wafer' or 'substrate') same 'silicon' adj1 ('wafer' or 'substrate') | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:36 |
| S10<br>7 | 271 | 'Bunshah Rointan' or 'Parsons James' or 'Stafsudd Oscar' and 'titanium'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:50 |
| S10<br>8 | 270 | 'Bunshah Rointan' or 'Parsons James' or 'Stafsudd Oscar' and 'titanium' adj3 'substrate'                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:50 |
| S10<br>9 | 270 | 'Bunshah Rointan' or 'Parsons James' or 'Stafsudd Oscar' and 'titanium' adj2 'substrate'                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 08:55 |



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|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S11<br>0 | 270 | 'Bunshah Rointan' or 'Parsons James' or 'Stafsudd Oscar' and 'titanium carbide'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/21 08:55 |
| S11<br>1 | 9   | ('Bunshah Rointan' or 'Parsons James' or 'Stafsudd Oscar') and 'titanium carbide' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/21 08:56 |
| S11<br>2 | 2   | ("6643099").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/21 10:15 |
| S11<br>3 | 2   | ("6768628").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/21 10:28 |
| S11<br>4 | 2   | ("6875475").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/21 10:36 |
| S11<br>5 | 1   | @ad<="20030416" and 'titanium carbide substrate' same 'silicon substrate'         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/21 10:40 |
| S11<br>6 | 1   | @ad<="20030416" and 'titanium carbide wafer' same 'silicon wafer'                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/21 10:40 |
| S11<br>7 | 440 | @ad<="20030416" and (438/52).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/08/29 13:25 |
| S11<br>8 | 1   | @ad<="20030416" and (438/52).<br>ccls. and 'TiC'                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/21 10:55 |
| S11<br>9 | 4   | @ad<="20030416" and (438/52).<br>ccls. and 'Titanium carbide'                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/11/21 11:05 |

## EAST Search History

|          |       |  |   |    |    |                  |
|----------|-------|--|---|----|----|------------------|
| S12<br>0 | 380   | @ad<="20030416" and (438/50).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:05 |
| S12<br>1 | 28    | @ad<="20030416" and (438/52).<br>ccls. and 'TiN'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:07 |
| S12<br>2 | 580   | @ad<="20030416" and (438/53).<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:31 |
| S12<br>6 | 47    | @ad<="20030416" and 'MEMS'<br>same 'TiN' same 'substrate'                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:35 |
| S12<br>7 | 11    | @ad<="20030416" and 'MEMS'<br>same 'TiN' with 'substrate'                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:35 |
| S12<br>8 | 0     | @ad<="20030416" and 'MEMS'<br>same 'Titanium carbide' with<br>'substrate'                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:04 |
| S12<br>9 | 10    | @ad<="20030416" and 'MEMS'<br>same 'Titanium nitride' with<br>'substrate'                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:35 |
| S13<br>0 | 0     | @ad<="20030416" and 'MEMS'<br>same 'Titanium boride' with<br>'substrate'                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 11:35 |
| S13<br>1 | 1     | @ad<="20030416" and 'reactive ion<br>etching' same 'oxidation plasma'<br>same 'etching plasma' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:20 |
| S13<br>3 | 20    | @ad<="20030416" and 'anisotropic'<br>same 'reactive ion etching' and<br>'oxidation plasma'     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:12 |
| S13<br>5 | 14455 | @ad<="20030416" and ('Metal<br>Anistropic Reactive Ion etching with<br>Oxidation' or 'MARIO')  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:15 |

## EAST Search History

|          |    |  |   |    |    |                  |
|----------|----|--|---|----|----|------------------|
| S13<br>6 | 1  | 'Metal Anistropic Reactive Ion etching' with 'Oxidation' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:18 |
| S13<br>7 | 1  | 'RIE' same 'MARIO'                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:18 |
| S13<br>8 | 1  | 'MARIO' same 'etching'                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:18 |
| S13<br>9 | 0  | @ad<="20030416" and 'stacking MEMS' same 'encapsulate'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:20 |
| S14<br>0 | 40 | @ad<="20030416" and 'stacking' with 'MEMS'               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:33 |
| S14<br>1 | 11 | @ad<="20030416" and 'enclose' same 'stack' same 'MEMS'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:35 |
| S14<br>2 | 1  | @ad<="20030416" and 'enclosure' same 'stack' same 'MEMS' | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:35 |
| S14<br>3 | 0  | @ad<="20030416" and 'encap' same 'stack' same 'MEMS'     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:35 |
| S14<br>4 | 13 | @ad<="20030416" and 'protect' same 'stack' same 'MEMS'   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/21 13:36 |